

CLAIMS

1. A recombinant or isolated nucleic acid molecule encoding at least a biologically functional part of a mammalian protein capable of binding to a p53 protein and comprising at least a part of the sequence

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1 GTGGCTCTTG CGAACTCTGG GTTTGAGAGG CCGGAACTGG TGCTGCCGTT
51 GCTCGCAGTT TCAAAATGCA GTGCAGGCCT TAGGGTCTCC GGCTGCCACC
101 CCTCCCCCAG CTAGGAGGGG GAGCGACTCA TGGAGCGGCC GTAAGTTTGC
151 TAACTGTGGA GTCTTCACTG CCAAAATGAC ATCACATTCC ACCTCGGCCC
10 201 AGTGTTCAGC ATCTGACAGT GCTTGCAGAA TTTCTTCGGA ACAAATTAGT
251 CAGGTGCGGC CAAAACCTGCA GCTTTTGAAG ATTTTGCATG CAGCAGGTGC
301 GCAGGGGGAA GTATTCACCA TGAAAGAGGT AATGCACTAT CTAGGCCAGT
351 ATATAATGGT GAAGCAGCTC TATGATCAAC AGGAGCAACA TATGGTATAC
401 TGTGGTGGAG ATCTTTTGGG AGATCTACTT GGATGTCAGA GCTTTTCTGT
15 451 GAAAGATCCA AGCCCTCTCT ATGACATGCT AAGAAAGAAT CTTGTTACAT
501 CAGCTTCTAA TAACACAGAT GCTGCTCAGA CTCTCGCTCT CGCACAGGAT
551 CACACTATGG ATTTTCCAAG TCAAGACCGA CTGAAGCACG GTGCAACAGA
601 ATACTCCAAT CCCAGAAAAA GAACTGAAGA AGAGGATACT CACACACTGC
651 CTACCTCACG ACATAAATGC AGAGACTCCA GAGCAGATGA AGACTTGATA
20 701 GAACATTTAT CTCAAGATGA GACATCTAGG CTTGACCTTG ATTTTGAGGA
751 GTGGGACGTT GCTGGCCTGC CTTGGTGGTT TCTAGGGAAT TTGAGAAACA
801 ACTGTATTCC TAAAAGTAAT GGCTCAACTG ATTTACAGAC AAATCAGGAT
851 ATAGGTACTG CCATTGTTTC AGACACTACG GATGATTTGT GGTTTTAA
901 TGAGACCGTG TCAGAGCAAT TAGGTGTTGG AATAAAAGTT GAAGCTGCTA
25 951 ATTCTGAGCA AACAAAGTAA GTAGGGAAAA CAAGTAACAA GAAGACGGTG
1001 GAGGTGGGAA AGGATGATGA TCTTGAGGAC TCCAGGTCCT TGagCGATGA
1051 TACTGACGTG GAACTTACCT CTGAGGATGA GTGGCAGTGT ACGGAATGCA
1101 AGAAGTTTAA TTCTCCAAGC AAGAGGTACT GTTTTCGTTG CTGGGCCTTG
1151 AGAAAGGATT GGTATTTCGA TTGTTCTAAA TTAATCATT CCCTATCTAC
30 1201 ATCTAATATT ACTGCCATAC CTGAAAAGAA GGACAATGAA GGAATTGATG
1251 TTCCCGATTG TAGGAGAACC ATTTCACTC CTGTTGTTAG GCCTAAAGAT
1301 GGATATTTAA AGGAGGAAAA GCCCAGGTTT GACCCTTGCA ACTCAGTGGG
1351 ATTTTTGGAT TTGGCTCATA GTTCTGAAAG CCAGGAGATC ATCTCAAGCG
1401 CGAGAGAACA AACAGATATT TTTTCTGAGC AGAAAGCTGA AACAGAAAGT
35 1451 ATGGAAGATT TCCAGAATGT CTTGAAGCCG TGTAGCTTAT GTGAAAAAAG
1501 GCCTCGGGAT GGGAAACATTA TTCATGGGAA GACGAGCCAT CTGACGACAT
1551 GTTTCCACTG TGCCAGGAGA CTGAAGAAGT CTGGGGCTTC GTGTCCTGTT
1601 TGTAAGAAAG AGATTCAGTT GGTATTATAA GTTTTTATAG CATAGTTGAG
1651 TCAGTCACAG AGAAATACTA GGAGGACCAG GTCATTTATC AAAAAAAAAA
40 1701 A

or a functional equivalent thereof.

2. A nucleic acid molecule according to claim 1 which is a cDNA.

3. A nucleic acid molecule according to claim 1 or 2, encoding at least a functional part of the human equivalent of the sequence of claim 1.
4. A recombinant vector comprising a nucleic acid molecule according to claims 1-3 together with suitable elements for regulation of replication and/or expression.
5. A recombinant host cell comprising a vector or a nucleic acid molecule according to anyone of the foregoing claims.
6. An isolated or recombinant proteinaceous substance comprising at least a biologically functional part of an amino acid sequence resulting from the translation of a nucleic acid molecule according to any one of claims 1-3, the expression of a vector according to claim 4 and/or the culture of a cell according to claim 5.
7. A method for the identification of proteins having a binding affinity for p53 comprising the steps of labelling a proteinaceous substance comprising at least the binding site of a p53 protein and hybridizing said substance with the protein to be tested.
8. A method for the identification of nucleic acid molecules encoding proteins having a binding affinity for a p53 protein comprising the steps of expressing said nucleic acid in a suitable expression system, labelling a proteinaceous substance comprising at least the binding site of a p53 protein and hybridizing said substance with the protein to be tested.